

		<h1 style="text-align: center;">AWARD/ MODIFICATION</h1>		3a. ISSUED BY: Office of Naval Research 875 N. Randolph Street Suite 1425 Arlington VA 22203-1995	
				3b. CFDA: 12.300	
4. AWARD NO.: N00014-18-1-2775		1. INSTRUMENT TYPE: Grant Award		3c. DUNS NUMBER: 052184116	
8. ACTIVITY/AGENCY PROPOSAL NO.: GRANT12624937		2. AUTHORITY: 10 USC 2358 and 31 USC 6304, as amended		7. PR NO.: 1000009987	
5. MODIFICATION NO.:		6. MODIFICATION TYPE: NEW		12. PROGRAM TYPE: ONR	
13. ISSUED TO 13a. ADDRESS:  CARNEGIE MELLON UNIVERSITY 5000 FORBES AVE PITTSBURGH PA 15213-3815 UNITED STATES OF AMERICA		13b. CAGE: 97668		13c. EDI/EFT NUMBER: N/A	
13d. BUSINESS OFFICE CONTACT: Judy Coyle		14. REMITTANCE ADDRESS (IF DIFFERENT FROM BLOCK 13): Same as Block # 13			
13e. TELEPHONE NUMBER: 412-268-5597					
13f. EMAIL ADDRESS: jcoyle@andrew.cmu.edu		15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE: A Robotics Framework for Integrating Model-based Reasoning and Experience-based Learning			
16. FUNDING		ACTIVITY/AGENCY SHARE		RECIPIENT SHARE	
PREVIOUSLY OBLIGATED:				\$0.00	
OBLIGATED BY THIS ACTION:				\$244,176.00	
TOTAL OBLIGATED ON AWARD:				\$244,176.00	
FUTURE FUNDING:				\$1,748,752.00	
GRANT TOTAL:				\$1,992,928.00	
17. CURRENT FUNDING PERIOD N/A THROUGH N/A					
18. PERIOD OF PERFORMANCE 09/01/2018 THROUGH 08/31/2022					
19. ACCOUNTING AND APPROPRIATION DATA: See Attached Financial Accounting Data Sheet(s)					
20a. PRINCIPAL INVESTIGATOR/RECIPIENT TECHNICAL REPRESENTATIVE: Maxim Likhachev		21. TECHNICAL REPRESENTATIVE 21a. NAME: THOMAS MCKENNA		21b. CODE: 341	
		21c. ADDRESS: ONR HUMAN & BIOENGINEERED SYSTEMS 875 N. Randolph Street Arlington VA 22203-1995			
20b. TELEPHONE NUMBER: 412-268-5581		20c. EMAIL ADDRESS: maxim@cs.cmu.edu		21d. TELEPHONE NUMBER: 703-696-4503	
				21e. EMAIL ADDRESS: TOM.MCKENNA@NAVY.MIL	
22. AWARDDING OFFICE CONTACT 22a. NAME: ERNEST L MARSHALL		22b. CODE: BD025		23a. ADMINISTRATIVE OFFICE: ONR REG Office Chicago Telephone: (312) 886-5423 Email: ONR_Chicago@navy.mil 230 South Dearborn CHICAGO IL 60604-1595	
22c. ADDRESS: Office of Naval Research 875 N. Randolph Street, Suite 1425 Arlington, VA 22203-1995		23b. CODE: N62880			
22d. TELEPHONE NUMBER:		22e. EMAIL ADDRESS: ERNEST.MARSHALL@NAVY.MIL			
24. SUBMIT PAYMENT REQUEST TO: Same as block 23a		25a. PAYING OFFICE DFAS-CO/NORTH ENTITLEMENT OPERATIONS HQ0337 PO Box 182266 COLUMBUS OH 43128		25b. CODE: HQ0337	
		26a. PATENT OFFICE: Office of Naval Research ATTN: ONR Office of Counsel Intellectual Property Section One Liberty Center 875 North Randolph Street, Suite 1425 Arlington, VA 22203-1995		26b. CODE: N00014	

AWARD NO. N00014-18-1-2775		<b>AWARD/MODIFICATION</b>		MODIFICATION NO.		
27. SPECIAL INSTRUCTIONS: See Special Requirements on Page 5						
28. DELEGATIONS: The administration duties listed below have been delegated to the administrative office (block 23a). Upon request the awarding office contact (block 22) will make their full text available. Please direct questions to the contacts @: <a href="http://www.onr.navy.mil/Contracts-Grants/Regional-Contacts.aspx">http://www.onr.navy.mil/Contracts-Grants/Regional-Contacts.aspx</a>						
This award provides full delegation to the administrative office in Block 23 of the grant. Full delegation includes the functions described in the DoDGARs at 32 CFR 22.715 and the administrative grants officer functions related to payments described in 32 CFR 22.810.						
29. TERMS AND CONDITIONS: The following terms and conditions are incorporated herein by reference with the same force and effect as if they were given in full text. Upon request the awarding office contact named in block 22 will make their full text available, or they can be found at the specified URL.						
DOCUMENT				URL		
The following documents may be found at : <a href="http://www.onr.navy.mil/Contracts-Grants/submit-proposal/grants-proposal/grants-terms-conditions.aspx">http://www.onr.navy.mil/Contracts-Grants/submit-proposal/grants-proposal/grants-terms-conditions.aspx</a> DOD RESEARCH AND DEVELOPMENT GENERAL TERMS AND CONDITIONS (JULY 2018)  UAWA AWARD A (SEP 2017) ADDENDUM TO THE DOD R&D GENERAL TERMS AND CONDITIONS AND ONR PROGRAMMATIC REQUIREMENTS - DOMESTIC RESEARCH (MAY 2018)						
30. OPTIONS      OPTION NO.                      AMOUNT                      PERIOD (1) (2) (3) (4)						
31. REPORTS: The reporting requirements under this award are specified in the articles of part 5 (Financial, Programmatic, and Property Reporting) to the DoD R&D general Terms and Conditions and in the additional language for Part 5 in the ONR Addendum to the DoD R&D General Terms and Conditions.						
32. FOR THE RECIPIENT				33. FOR THE UNITED STATES OF AMERICA		
32a. SIGNATURE OF PERSON AUTHORIZED TO SIGN				33a. SIGNATURE OF AWARDOFFICER Digitally signed by VERONICA LACEY 1231655901 Dated: 2018.08.03 14:36:03 EST		
32b. NAME AND TITLE OF SIGNER		32c. DATE SIGNED		33b. NAME AND TITLE OF AWARD OFFICER		33c. DATE SIGNED
				VERONICA LACEY		08/03/2018

## FINANCIAL ACCOUNTING DATA SHEET - NAVY

1. CONTRACT NUMBER (CRITICAL) N00014-18-1-2775			2. SPIIN (CRITICAL)		3. MOD (CRITICAL)			4. PR NUMBER 1000009987									
CLIN/SLIN	6. LINE OF ACCOUNTING													7.  AMOUNT (CRITICAL)		NAVY INTERNAL USE ONLY REF DOC/ACRN	
	A. ACRN (CRITICAL)	B. APPROPRIATION (CRITICAL)	C. SUBHEAD (CRITICAL)	D. OBJ CLA	E. PARM	F. RFM	G. SA	H. AAA (CRITICAL)	I. IT	J. PAA	K. COST CODE						
											PROJ UNIT	MCC	PDLI & SUF				
	AA	1781319	W1AE	410	00	014	0	050120	2D	000000	000025	534	680	\$244,176.00			
PAGE TOTAL														\$244,176.00			
GRAND TOTAL														\$244,176.00			
PREPARED/AUTHORIZED BY:						COMPTROLLER APPROVAL:											
DATE:						FOR FISCAL DATA AND SIGNATURE											
						BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED											
DATE:						DATE:											

## FINANCIAL ACCOUNTING DATA SHEET – NON-NAVY DoD ACTIVITIES

1. CONTRACT NUMBER (CRITICAL) N00014-18-1-2775		2. SPIIN (CRITICAL)	3. MOD (CRITICAL)	4. PR NUMBER 1000009987		
5. CLIN/SLIN	6. ACRN (CRITICAL)	7. ACCOUNTING CITATION			8. AMOUNT (CRITICAL)	NAVY INTERNAL USE ONLY REF DOC/ACRN
PAGE TOTAL						
GRAND TOTAL						
PREPARED/AUTHORIZED BY:  DATE:			COMPTROLLER APPROVAL: FOR FISCAL DATA AND SIGNATURE BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED DATE: _____			

AWARD NO. N00014-18-1-2775	<b>SPECIAL REQUIREMENTS</b>	MODIFICATION NO.	
<p>The Following payment instructions are hereby provided:</p> <p>Payment Office:</p> <p>The payment office shall make payment in sequential ACRN order within the award, exhausting all funds in the previous ACRN before paying from the next ACRN using the following sequential order: alpha/alpha; alpha/numeric; numeric/alpha; and numeric/numeric ACRN sequence...</p> <p>..</p> <p>Grantee:</p> <p>Payment guides are available on the ONR website at the following link:  <a href="https://www.onr.navy.mil/Contracts-Grants/manage-grant/grants-payment/electronic-payment.aspx">https://www.onr.navy.mil/Contracts-Grants/manage-grant/grants-payment/electronic-payment.aspx</a>..</p> <p>..</p> <p>Reports</p> <p>Block 31 of this award form, including any information in the header and underlying rows of that block, is hereby deleted in its entirety and replaced by the following language: "The reporting requirements under this award are specified in the articles of Part 5 (Financial, Programmatic, and Property Reporting) to the DoD R&amp;D General Terms and Conditions and in the additional language for Part 5 in the ONR Addendum to the DoD R&amp;D General Terms and Conditions".</p>			